

PHILIPS

The SoftFab

Automating the build, test and reporting process

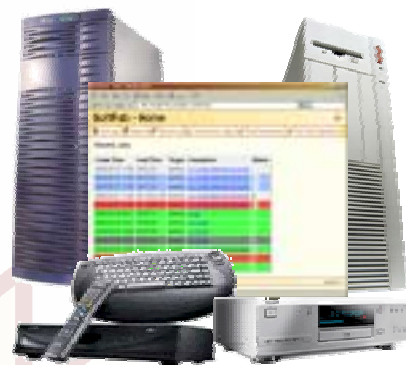
Tom Burgmans

Version 1.0

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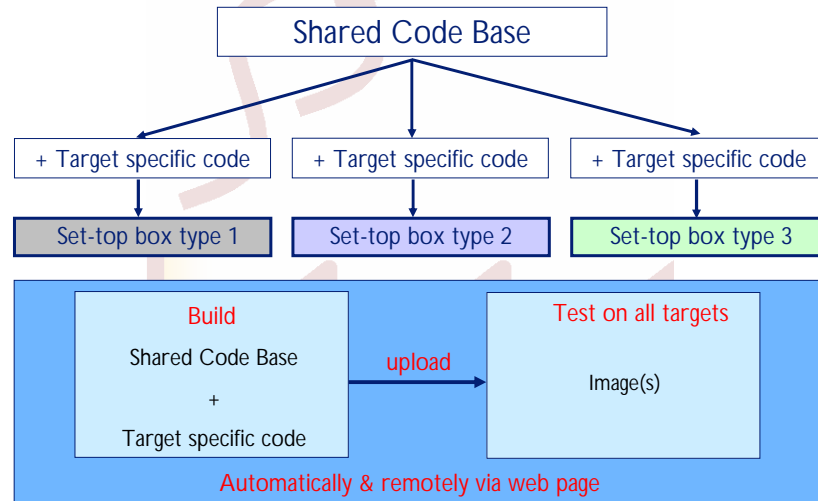
Agenda

- History
- The concept
- Implementation
- Demonstration
- Advantages of SoftFab
- Conclusion



SoftFab

History



History



SoftFab

History



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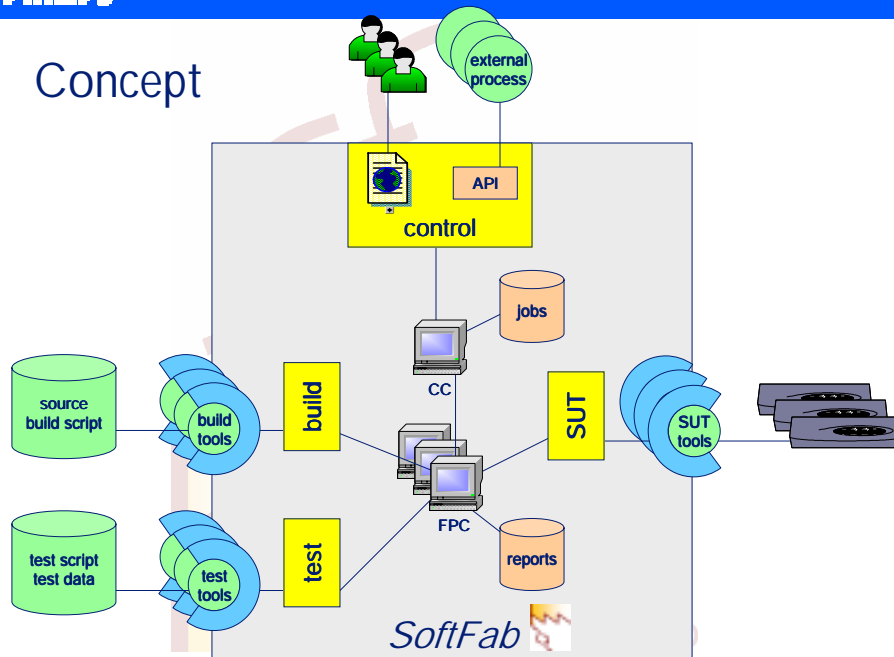
History: current situation

- 12 Successful installations at customers
- First international modules are a fact
- Increasing robustness and features
- A lot of interesting future prospects

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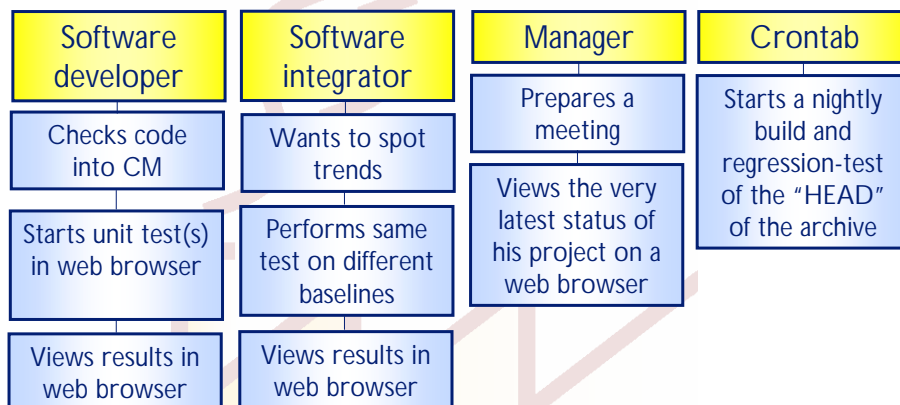
Concept



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Concept – some use-cases

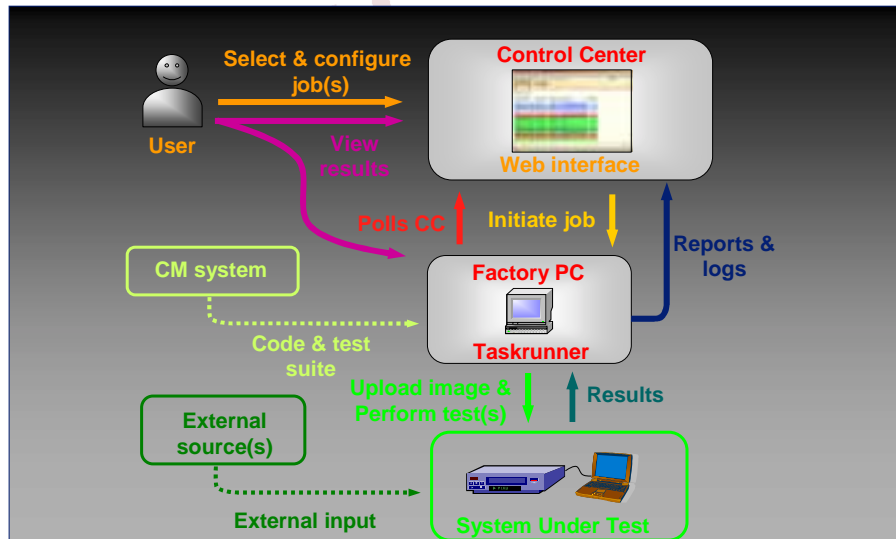


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Concept – internal process



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Concept

SoftFab is not: ❌

- A methodology
- A test tool
- A CM tool
- A RC for the SUT
- A replacement for test engineers

SoftFab is: ✅

- An executor of your automated tests/builds
- A window to your reports and logs
- A viewer to the status of your test environment
- A reserve mechanism for resources
- A scheduler for future jobs

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Concept

You still need:



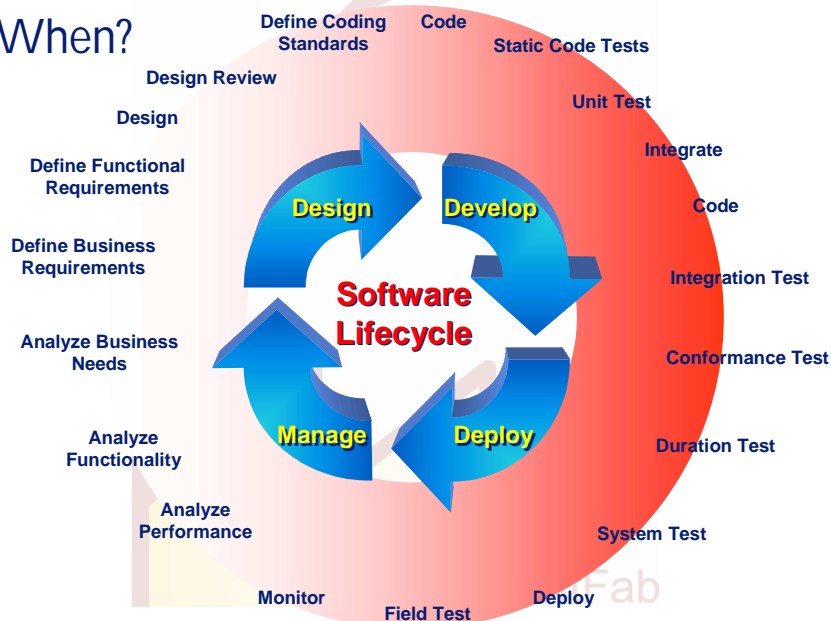
- (Test) architect
- Integrator / Test engineers
- Test cases/suites/scripts
- Tools for testing your product automatically

SoftFab offers:

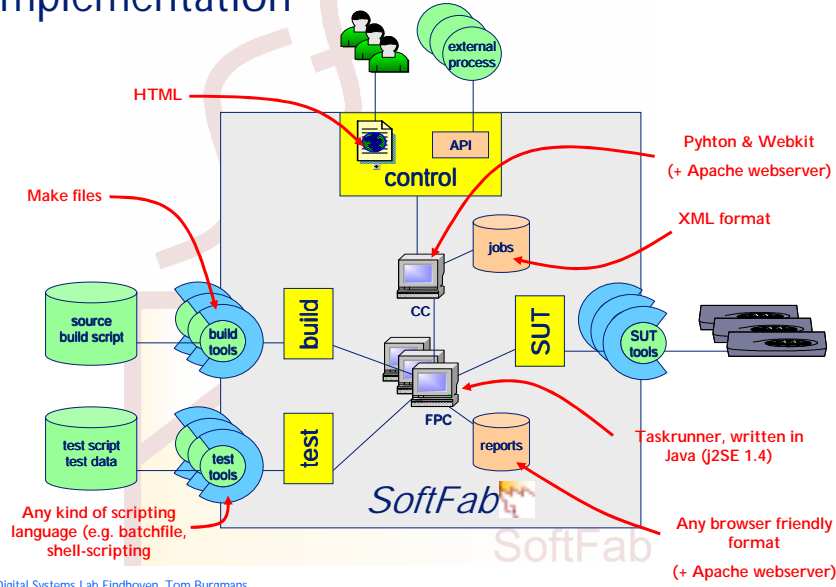


- Infrastructure that automatically builds and tests your code
 - Software Processes
 - Equipment
 - Consultancy, expert assistance
- Web interface to processes, results, reports and status
- Open flexible architecture (OS independent)
- Time! (Optimal (re)use of your equipment, resources and processes)

When?



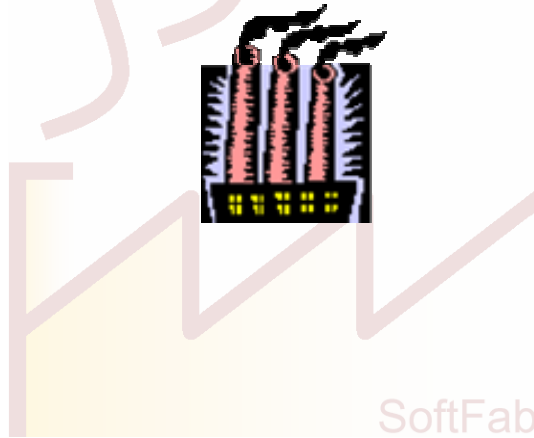
Implementation



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The Demonstration



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Advantages of SoftFab in your project

Speed: with only a few button clicks you can perform a complex procedure. The SoftFab allows parallel building & testing. More tests run more often!

Solves: problem of slow testing progress

Advantages of SoftFab in your project

Consistency: there is only one centralised way of working. This increases the reliability of your test results.

Solves: problem of undesired differences in performing tests.

Advantages of SoftFab in your project

Flexibility: the SoftFab operates 24 hours a day. Let the SoftFab work at night!

Solves: problem of too busy days and too quiet nights.

SoftFab

Advantages of SoftFab in your project

Ease: you don't have to be an expert anymore to perform builds and tests, anyone can now do it with the SoftFab.

Solves: problem of repeating boring and complex tests.

SoftFab

Advantages of SoftFab in your project

Security & Robustness: SoftFab offers a centralized equipment- and security management.

Solves: problem of insecure dependencies to fragile improvised desktop test set-ups

SoftFab

Advantages of SoftFab in your project

Maintainability: The only thing a user needs is a web browser.

Solves: problem of installations of tools at the user's desk.

SoftFab

Advantages of SoftFab in your project

Open architecture: SoftFab facilitates complete re-use of previous investments in tooling and test suites.

Solves: problem of obsolete expensive tools and scripts.

SoftFab

Advantages of SoftFab in your project

See trends: all build and test results are stored in a database and easily accessible. Compare different baselines with each other

Solves: problem of lost test results from the past

SoftFab

Advantages of SoftFab in your project

Multidisciplinary: The SoftFab provides integration of existing test frameworks, which can perform:

- Building
- Static analysis tests
- Dynamic analysis tests
- Performance measurements
- Conformance tests
- Much more...

Solves: problem of being limited to a subset of test frameworks.

SoftFab

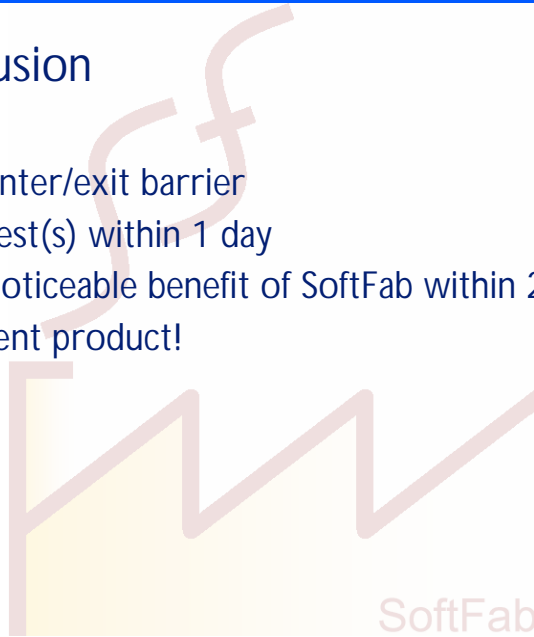
Some wild ideas

- Let every desk-top PC be a test-PC at night
- SoftFab as screensaver
- Check in code in CM → receive mail when tests are done
- Multi site development? Test code in each other's SoftFab
- SMS to test-engineer whenever a HIP pops up
- More...?

SoftFab

Conclusion

- Low enter/exit barrier
- First test(s) within 1 day
- First noticeable benefit of SoftFab within 2 weeks
- Excellent product!



Conclusion

Björn Bon (Integrator MHP)

"Without SoftFab we would not have an MHP compliant IBO+ product at this time."

Ben Spierenburg (PDSL SPI manager)

"PDSL projects should use SoftFab by default. Projects that do not (want to) use it have something to explain."

Marcel Schuitema (testmanager DXC)

"Very useful system. Very reliable system. Compliments for everybody in the SoftFab team."

